

MODIFIED PTO/SB/08 (08-00)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449a-1101 INFORMATION DISCLOSURE STATEMENT BY APPLICANT Filed on June 1, 2004 (use as many sheets as necessary)		Complete if Known	
		Application Number	09/400,870- 101813693
		Filing Date	11/07/2003
		First Named Inventor	Stanley Tabor
		Group Art Unit	1655
		Examiner Name	
		Attorney Docket Number	048331-170T

Sheet 1 of 7

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
JS	A1	4,942,130		Tabor et al.	07-17-1990	
	A2	4,946,786		Tabor et al.	08-07-1990	
	A3	5,194,370		Berninger et al.	03-16-1993	
	A4	5,556,772		Sorge et al.	09-17-1996	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	A5	EP	0623682 AI		Becton, Dickinson and Company			
	A6	WO	00/41524		President and Fellows of Harvard College			
	A7	WO	96/05296		Institut for Molekulare Biotechnologie, E.V.			
	A8	WO	98/42689		Bayer Aktiengesellschaft		English lang. abstract only.	

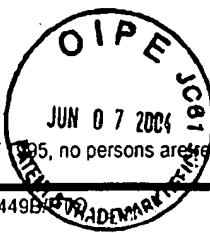
NON PATENT LITERATURE DOCUMENTS			
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JS	A9	Almaula et al., "Nucleoside Dephosphate Kinase From Escherichia Coli," J. Bact. 177:2524 (1995)	
JS	A10	Applegren et al., "Further characterization of the human cell multiprotein DNA replication complex." Journal Of Cellular Biochemistry 59:91-107 (1995).	

Examiner Signature	<i>Juliet C. Smith</i>	Date Considered	6-22-06
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**INFORMATION DISCLOSURE
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Application Number	00/400,070-101813693
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First Named Inventor	Stanley Tabor
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Sheet 2 of 7

NON PATENT LITERATURE DOCUMENTS

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JS	A11	Barnes, "PCR Amplification Of Up To 35-Kb DNA With High Fidelity And High Yield From Bacteriophage Templates," Proc. Natl. Acad. Sci. USA 91:2216 (1994)	
	A12	Beato, "Steroid hormone receptors: Many actors in search of a plot." Cell, 83:851-857, 1995	
	A13	Bernstein et al., "A 7-kDa Region Of The Bacteriophage T7 Gene 4 Protein Is Required Of Primase But Not For Helicase Activity," Proc. Natl. Acad. Sci. USA 85:396 (1988).	
	A14	Bernstein et al., "Characterization Of The Helicase And Primase Activities Of The 63-Kda Component Of The Bacteriophage T7 Gene 4 Protein," J. Biol. Chem. 264:13066 (1989)	
	A15	Blanco et al., "Terminal Protein -Primed DNA Amplification," Proc. Natl. Acad. Sci. USA 91:12198-12202, December (1994)	✓
	A16	Cheng et al., "Effective Amplification Of Long Targets From Cloned Insects And Human Genomic DNA", Proc. Natl. Acad. Sci. USA 91:5695 (1994)	✓
	A17	Cohen et al., "An Artificial Cell Cycle Inhibitor Isolated From A Combinatorial Laboratory," Proc. Natl. Acad. Sci. USA 95:14272 (1998)	✓
	A18	Doherty et al., "Bacteriophage T7 DNA ligase." J. Biol. Chem. 271:11083 (1996)	✓
	A19	Engler et al., "Bacteriophage T7 Dna Replication," J. Biol. Chem. 258:11197 (1983)	✓
JS	A20	Engler et al., "Two Forms Of The DNA Polymerase Of Bacteriophage T7," J. Biol. Chem. 258:11165-11173 (1983).	

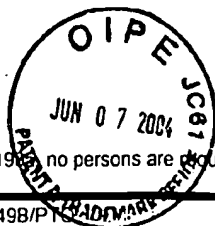
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Sheet 3 of 7

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JS	A21	Evans, The steroid and thyroid hormone receptor superfamily. Science, 240: 889-895, 1988.	✓
	A22	Ewing et al., "Base-Calling Of Automated Sequencer Traces Using Phred. II. Error Probabilities," Genome Research 8:186 (1998)	✓
	A23	Famulok et al., Oligonucleotide libraries - variatio delectat. Curr. Opin. Chem. Biol. 2:320 (1998)	✓
	A24	Gibson et al., "A Novel Method For Real Time Quantitative RT-PCR," (Genome Research 6:995 (1996)	✓
	A25	Greenstein et al., "Interaction Between The Replication Origin And The Initiator Protein Of The Filamentous Phage F1: Binding Occurs In Two Steps," J. Molec. Biol. 197:157 (1987)	✓
	A26	Guatelli et al., "Isothermal, In Vitro Amplification Of Nucleic Acids By A Multienzyme Reaction Modeled After Retro Viral Replication," Proc. Natl. Acad. Sci. USA 87:1874 (1990)	✓
	A27	Guo et al., "The Linker Egon Between The Helicase And Primase Domains Of The Bacteriophage T7 Gene 4 Protein Is Critical For Hexamer Formation," J Biol. Chem. 274:30303 (1999),	✓
JS	A28	Harth et al., "Bacteriophage Fd Gene-2 Protein," Eur. J. Biochem. 119:663 (1981)	✓

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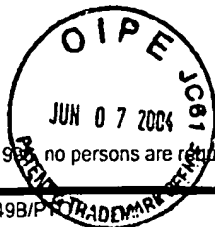
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Filing Date	11/07/2003
First Named Inventor	Stanley Tabor
Group Art Unit	1655
Examiner Name	
Attorney Docket Number	048331-1707

Sheet

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JS	A29	Higashitanit et al., "A Single Amino Acid Substitution Reduces The Superhelicity Requirement Of A Replication Initiator Protein," Nucl. Acids Res. 20:2685 (1992)	✓
	A30	Jespersion, T. et al., "Efficient Non-PCR-Medicated Overlap Extension Of PCR-Medicated Overlap Extension of PCR Fragments By Exonuclease "End Polishing", Biotechniques 23, No. 1:48-52 (1997)	✓
	A31	Kerr et al., "Gene 6 Exonuclease Of Bacteriophage T7," J Biol. Chem. 247:305 (1972)	✓
	A32	Kim et al., "Purification And Characterization Of The Bacteriophage T7 Gene 2.5 Protein," J. Biol. Chem. 267:15022 (1992)	✓
	A33	Lee et al., "Coordinated Leading And Lagging Strand DNA Synthesis On A Minicircular Template," Mol. Cell. 1:1001 (1998)	✓
	A34	Lohman et al., "Large Scale Overproduction And Rapid Purification Of The Escherichia Coli SSB Gene Product. Expression Of The SSB Gene Under PL Control," Biochemistry"	✓
	A35	Mangelsd and Evans, "The RXR heterodimers and orphan receptors. Cell, 842-850.	✓
JS	A36	Mendelman et al., "Evidence For Distinct Primase And Helicase Domains In The 63-KDA Gene 4 Protein Of Bacteriophage T7," J.Biol.Chem 268:27208 (1993)	✓

Examiner
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Date

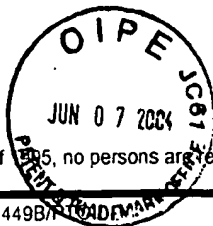
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Sheet 5 of 7

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JS	A37	Matson and Richardson, "DNA-Dependant Nucleoside 5'- Triphosphatase Activity Of The Gene 4 Protein Of Bacteriophage T7," J Biol Chem. 258:14009-14016 (1983)	✓
	A38	Mendelman et al., "Roles Of Bacteriophage T7 Gene 4 Proteins In Providing Primase And Helicase Functions In Vivo," Proc. Natl. Acad. Sci. USA 89:10638 (1992)	✓
	A39	Meyer et al., "Replication Of Phage FD RF With FD Gene 2 Protein And Phage TF Enzymes," J. Biol. Chem. 256:58 10 (1981)	✓
	A40	Mitra and Church, "In Situ Localized Amplification And Contact Replication Of Many Individual DNA Molecules," Nucleic Acids Res. 27 (24):E34 (1999)	✓
	A41	Notarnicola et al., "A Domain Of The Gene 4 Helicase/Primase Of Bacteriophage T7 Required For The Formation Of An Active Hexamer," J. Biol. Chem 273:5260 (1998)	✓
	A42	Notarnicola et al., "The Nucleotide Binding Site Of The Helicase/Primase Of Bacteriophage T7," J. Biol. Chem. 268:27198 (1993)	✓
	A43	Park et al., "Formation Of A DNA Loop At The Replication Fork Generated By Bacteriophage T7 Replication Proteins," J. Biol. Chem. 273:5260 (1998)	✓
JS	A44	Saiki et al., "Enzymatic Amplification Of B-Globin Genomic Sequences And Restriction Site Analysis For Diagnosis Of Sickle Cell Anemia," Science 230:1350-1354 (1985)	✓

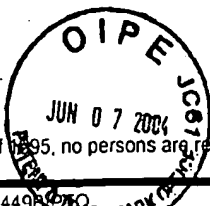
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JP	A45	Saiki et al., "Primer-Directed Enzymatic Amplification Of DNA With A Thermosable DNA Polymerase," Science 239:487-491 (1988)	✓
	A46	Salas, "Protein Priming Of DNA Replication," Ann. Rev. Biochem 60:39 (1991)	✓
	A47	Sarkar et al., "Removal of DNA contamination in polymerase chain reaction reagents by ultraviolet irradiation." Methods Of Enzymology, 218:381-388 (1993)	
	A48	Scherzinger et al., "Role Of Bacteriophage T7 DNA Primase In The Initiation Of DNA Strand Synthesis," Nucl. Acids Res. 4:4151 (1977)*	
	A49	Scherzinger et al., "Bacteriophage-T7-induced DNA-priming protein : A novel enzyme involved in DNA replication. Eur. J. Biochem 72:543-558 (1977).	
	A50	Tabor et al., "Eschericia Coli Thioredoxin Confers Processivity On The Dna Polymerase Activity Of The Gene 5 Protein Of Bacteriophage T7," J. Biol. Chem. 262:16212-16223 (1987)	
JP	A51	Tabor et al., "Selective Inactivation Of The Exonuclease Activity Of Bacteriophage T7 DNA Polymerase By In Vitro Mutagenesis," J. Biol. Chem. 262:6447-6458 (1989)	
	A52	Tabor et al., "DNA Sequence Analysis with a Modified Bacteriophage T7 DNA Polymerase." Journal Of Biological Chemistry 265(14):8322-8328 (1990)	

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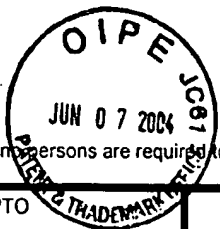
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JTB ↓ GS	A53	Tyagi et al., "Extremely Sensitive Background-Free Gene Detection Using Binary Probes And QB Replicase," Proc. Natl. Acad. Sci. USA 93:5395 (1996)	
	A54	Walker et al., "Isothermal In Vitro Amplification Of DNA By A Restriction Enzyme/DNA Polymerase System," Proc. Natl. Acad. Sci. USA 89:392 (1992)	
	A55	Werle, Laboratory Methods For The Detection Of Mutations And Polymorphisms In DNA, ed. Taylor "Direct Sequencing of Polymerase chain reaction products." pp. 163-174 (1997)	
	A56	Zhang et al., "Amplification Of Target-Specific, Ligation-Dependant Circular Probe," Gene 211:277 (1998)	

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